10 4-25-0

DOCKET NO.: ISIS-1158

PATEN



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Nielsen, et al.

Application No.: 08/319,411

Filing Date: October 6, 1994

For: Peptide Nucleic Acid Conjugates

Confirmation No.: 8648

Group Art Unit: 1631

Examiner: Michael L. Borin

EXPRESS MAIL LABEL NO: EV 817333738 US

DATE OF DEPOSIT: September 22, 2006

EA97433343902

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

AMENDMENT, REQUEST AND PROCESSING FEE TO DELETE AND/OR ADD TO ORIGINAL ERRONEOUSLY NAMED OR NOT NAMED INVENTOR(S) IN DECLARATION - NONPROVISIONAL APPLICATION PURSUANT TO 37 CFR § 1.48(a)

This amendment and request is to correct the incorrect original naming of inventor(s) in the declaration under 37 CFR § 1.48(a) as set forth and filed on April 10, 1995.

Addition and/or Deletion of Inventor(s)

 \bowtie Add the following previously unnamed person(s) as inventor(s) of this application:

Rolf Henrik Berg

П Delete the following previously incorrectly named inventor(s)

09/26/2006 HVUONG1 00000031 08319411

01 FC:1464

130.00 OP

Attachments

7 11140111110	1110		
At	tached is		·
	\boxtimes	A stat	ement from
			(check items that apply)
		\boxtimes	each person being added as an inventor that the error in
			inventorship occurred without deceptive intention on his or her
			part. 37 CFR § 1.48(a)(1).
			each person being deleted as an inventor that the error in
			inventorship occurred without deceptive intention on his or her
•			part. 37 CFR § 1.48(a)(1).
,	\boxtimes		aration by each of the actual inventor(s) as required by 37 CFR § or as permitted by §§§ 1.42, 1.43, or 1.47. 37 CFR § 1.48(a)(2)).
			n assent of the assignee (if any of the original inventors executed ignment). 37 CFR § 1.48(a)(4).
Processin	g Fee Paym	ent (37	CFR § 1.17(i))
\boxtimes	A che	ck in th	e amount of \$130.00 is attached.
		_	e Deposit Account No. 23-3050 in the amount of. This sheet is aplicate.
×	overpa	ayment	sioner is hereby authorized to charge any deficiency or credit any of the fees associated with this communication to Deposit 23-3050.

Date: September 22, 2006

John A. Harrelson, Jr., PhD Registration No. 42,637

Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia PA 19103

Telephone: (215) 568-3100 Facsimile: (215) 568-3439

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Confirmation No.: 8648

Nielsen, et al

Serial No.: 08/319,411

Group Art Unit: 1631

Filing Date: October 6, 1994

Examiner: Ardin H. Marschel

For: Peptide Nucleic Acid Conjugates

Assistant Commissioner for Patents Washington, D.C. 20231

STATEMENT IN SUPPORT OF PETIȚION TO CORRECT INVENTORSHIP

I, Rolf Henrik Berg, state that:

- 1. An error in inventorship exists in the above-identified patent application.
- 2. The error arose because I am an inventor of subject matter disclosed in the above-identified application but was inadvertently omitted in the declaration filed April 10, 1995.
- 3. I understand that, to correct this error, I am being added as an inventor.
- 4. This error in inventorship occurred without deceptive intention on my part.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this statement is directed.

Date: 01 Sep 2006

Rolf Henrik Berg

Aug-23-08 10:04am From-WoodcockWashburn
DOCKET NO.: 1818-1188

+2155683438

T-716 P.004/028 F-841 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen: Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Mancharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought on the is	nvention, whose title appea	rs above, the specification of which:
	is attached hereto.	
×	was filed on <u>October 6. 19</u>	994 as Serial No. <u>08/319.411</u> .
lacktriangle	said application having be	en amended on <u>02/03/95; 04/03/97; 08/08/97</u>
01/28/98: 03/18/9	99: 06/16/99 <mark>: 01/27/00: 06</mark> /	<u> 19/00; 05/25/01; 02/20/03; 10/30/03; 07/20/04;</u>
12/06/04:		

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

From-WoodcockWashburn 10:04am Aug-28-06 DOCKET NO.: ISIS-1158

+2155683438

T-716 P.005/028 F-341 PATENT

Date Filed Serial Number **Priority Claimed** Country (lf X'd) May 22, 1992 EP/01219 PC1 龱 May 24, 1991 986/91 Denmark 図 May 24, 1991 987/91 Denmark 図 April 15, 1992 510/92 Denmark

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofur as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,6:15
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

> 32650 PATENT TRADUMARK OPPICE

Aug-23-06 10:04am From-WoodcockWashburn

+2155683438

T-716 P.006/028 F-341
PATENT

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	- Ma
Mailing Address:	Signature
Tesdorpfsvej 49 Frederiksberg DK 2000	Date of Signature: Aug 31 2006
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	

Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	
Malling Address:	Signature
Klosterrisvej 8 3100 Homback	Date of Signature:
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Aug-23-06 10:04am From-WoodcockWashburn

Madison, Connecticut

+2155683438

T-716 P.007/026 F-341 PATENT

Name:	•
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16 DK2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denunark
Tuastrup, Denmark	
Name:	
Jesper Lohse	
	Signature
Mailing Address:	i Bikiistase
Hulgardsvej 92 st. th. DK2400 Copenhagen, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Copenhagen, Denmark	
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road	The second City of the second ci
Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark

Aug-23-06 10:04am From-WoodcockWashburn
DUCKET NO.: 1815-1158

+2155693438

T-716 P.008/028 F-341 PATENT

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
Ministry Audiess.	
25 Circle Drive	Date of Signature:
Weston, MA 02493	Date of Signatures
City/State of Actual Residence:	Citizenship: United States of America
Weston, Massachusetts	Citizensnip: Onited States of Adience
Weston, Wansachinsetts	
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil	
San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	
	Citizenship: United States of America
San Diego, California	
L	
Name:	
Michael Griffith	
Michael Grimth	
Mailing Address:	Signature
5676 Greenshade Road	
San Diego, CA 92121	Date of Signature:
	4
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	

Aug-23-06

10:04an From-WoodcockWashburn
DOCKET NO.: ISIS-1158

+2155683438

T-716 P.000/028 F-341 PATENT

Name:

Kelly Sprankle

Mailing Address:

1024 Gleneagles Place
Vista, CA 92081

City/State of Actual Residence:

Vista, California

Citizenship: United States of America

Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6 2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Demark
2960 Rungsted Kyst, Denmark	

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

le Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonncchsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

\boxtimes	Utility Patent	Design Patent
is sought on the in	vention, whose title appear	rs above, the specification of which:
	is attached hereto.	
\boxtimes	was filed on October 6, 19	994 as Serial No. <u>08/319,411</u> .
	said application having be	en amended on <u>02/03/95; 04/03/97; 08/08/97</u>
01/28/98; 03/18/9	9; <u>06/16/99; 01/27/00; 06/</u> 1	<u>19/00; 05/25/01; 02/20/03; 10/30/03; 07/20/04;</u>
12/06/04;		

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

PATENT

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968
	1	

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
	!

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650 PATENT TRADEMARK OFFICE

PATENT

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49 Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature:
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16 DK2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Taastrup, Denmark	
Name:	
Jesper Lohse	Signature Signature
Mailing Address:	Signature
Hulgardsvej 92 st. th.	
DK2400 Copenhagen, Denmark	Date of Signature: 0720-2006
City/State of Actual Residence:	
Copenhagen, Denmark	Citizenship: Denmark
Copennagen, Denmark	I
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road	
Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Cut
Madison, Connecticut	Citizenship: Denmark

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive	
Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	
Weston, Massachusetts	Citizenship: United States of America
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil	D 4 - 6 G! 4
San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	Chizonomp. Chico States 021 222
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road	Date of Signature:
San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	•

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081 City/State of Actual Residence:	Date of Signature:
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6 2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
2960 Rungsted Kyst, Denmark	-

09/20/2008 17:37 FAX 7808033820

ISIS PATENT DEPT

Ø 002/007

DOCKET NO.: ISIS-1158

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Mancharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought on	the invention, whose title appea	us above, the specification of which:
	is attached hereto.	
was filed on October 6, 1994 as Serial No. 08/319,411.		
said application having been amended on 02/03/95; 04/03/97: 08/08/97		
01/28/98; 03/	18/99; 06/16/99; 01/27/00; 06/	19/00; 05/25/01; 02/20/03; 10/30/03; 07/20/04;
12/06/04:		

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

09/20/2008 17:37 FAX 7606033820

ISIS PATENT DEPT

@ 003/007·

DOCKET NO.: ISIS-1158

PATENT

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Deomark	986/91	May 24, 1991
⊠	Denmark	987/91	May 24, 1991
Ø	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed	

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

Name:

(E) 0047001 '

TOTO LUICUI DEL

DOCKET NO.: ISIS-1158

PATENT

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Peter B. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence;	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	- see Decimal of Ole Buchards
Mailing Address:	Signature
Klostemisvej 8	
3100 Hornback	Date of Signature:
City/State of Actual Residence: Homback, Denmark	Citizenship: Denmark

POSENSENDO II.OD PAN IDVONOGORAN TOTO INICHI PELI

DOCKET NO.: ISIS-1158

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16	
DK2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	
Taastrup, Denmark	Citizenship: Denmark
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th.	
DK2400 Copenhagen, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Copenhagen, Denmark	Citizenship: Denmark
Name:	·
Michael Egholm	
Mailing Address:	Signature
1 Highview Road	
Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	
Madison, Connecticut	Citizenship: Denmark
	1

03/20/2008 11.00 FMA 100800000

TOTO LUIENI MELI

Minoston,

DOCKET NO.: ISIS-1158

Nалца:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive	
Weston, MA 02493	Date of Signature;
City/State of Actual Residence:	
Weston, Massachusetts	Citizenship: United States of America
Name;	
John Kiely	
Mailing Address:	Signature
16790 Chirco Drive	
Los Gatos, CA 95032	Date of Signature;
CVA /DA a da a	
City/State of Actual Residence:	Citizen aluta VIII I III
Los Gatos, California	Citizenship: United States of America
	·
Name:	
Michael Griffith	Date of Signature: 9/20/06
Mailing Address:	Signature
4997 Willow Ridge Court	
Zionsville, IN 46077	Date of Signature: 9/20/06
City/State of Actual Residence:	
	Citizenship: United States of America
Zionsville, IN	

09/20/2008 17:38 FAX 7808033920 ISIS PATENT DEPT

@ 007/007 ·

DOCKET NO.: ISIS-1158

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081 City/State of Actual Residence:	Date of Signature:
Vista, California	Citizenship: United States of America
Name:	
ivame;	
Rolf Henrik Berg	
Malling Address:	Signature
Strandvaenget 6	1
2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	1
2960 Rungsted Kyst, Denmark	Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Ke Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought on th	ne invention, whose title appea	rs above, the specification of which:
	is attached hereto.	
	was filed on October 6, 19	994 as Serial No. <u>08/319,411</u> .
	⊠ said application having be	een amended on <u>02/03/95; 04/03/97; 08/08/97</u>
01/28/98; 03/1	18/99; 06/16/99; 01/27/00; 06/	19/00; 05/25/01; 02/20/03; 10/30/03; 07/20/04
12/06/04: .		

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
	PCT	EP/01219	May 22, 1992
	Denmark	986/91	May 24, 1991
	Denmark	987/91	May 24, 1991
	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed	

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49 Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature:
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
INAMIC.	
Soren H. Sonnechsen	
Mailing Address:	Signature
-	
Loevtoften 16	
DK2630 Taastrup, Denmark	Date of Signature:
Dit2030 Taustrup, Definition	
City/State of Astrol Desidences	
City/State of Actual Residence:	Citi-on-him. Down-only
	Citizenship: Denmark
Taastrup, Denmark	
Name:	
Name.	
T T 1	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th.	
DK2400 Copenhagen, Denmark	Date of Signature:
Die voo Copennagen, 2 ennam	
City/State of Astual Desidences	
City/State of Actual Residence:	Citizanahin, Danmark
	Citizenship: Denmark
Copenhagen, Denmark	
Name:	
Michael Egholm	
Wienaci Egnomi	
N. (1) A 1 1	G:
Mailing Address:	Signature
11 Highview Road	
Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	
Chybrate of Actual Residence.	Citizenship: Denmark
Madiana Compations	Citizenship. Delimark
Madison, Connecticut	

	•
Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	
Weston, Massachusetts	Citizenship: United States of America
	<u></u>
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil	
San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road	
San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	
San Diego, California	Citizenship: United States of America

Name:	
Kelly Sprankle	Lely Smankl
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081	Date of Signature: 8.27-06
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America

Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6	
2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citizanshin, Danmark
2960 Rungsted Kyst, Denmark	Citizenship: Denmark

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In R Application of:

DOCKET NO.: ISIS-1158

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought on t	he invention, whose title appe	ars above, the specification of which:
	is attached hereto.	
	was filed on October 6, 1	1994 as Serial No. <u>08/319,411</u> .
	⊠ said application having b	peen amended on 02/03/95; 04/03/97; 08/08/97
01/28/98; 03/	18/99; 06/16/99; 01/27/00; 06	/19/00; 05/25/01; 02/20/03; 10/30/03; 07/20/04
12/06/04: .		

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
L	
Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signatures
3100 Homback	Date of Signature:
City/State of Actual Residence:	
Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16 DK2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Taastrup, Denmark	Citizenship. Beimark
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th. DK2400 Copenhagen, Denmark	Date of Signature:
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Cities abin Demonstr
Madison, Connecticut	Citizenship: Denmark

	·
Name:	
Muthiah Manoharan	
Mailing Address:	Signature
Waning Addi ess.	Signature
25 Circle Drive	
Weston, MA 02493	Date of Signature:
, , , , , , , , , , , , , , , , , , , ,	9
City/State of Actual Residence:	
	Citizenship: United States of America
Weston, Massachusetts	
Name:	
Name:	
John Kiely	(1)
Joini Kiery	1710h
Mailing Address:	Signature
Training Traditions	7
16790 Chirco Drive	Date of Signature: 09/09/03
Los Gatos, CA 95032	Date of Signature: $\frac{\partial 9/\Delta^{9}/\partial \mathcal{L}}{\partial \mathcal{L}}$
	1 /
City/State of Actual Residence:	
	Citizenship: United States of America
Los Gatos, California	
April 19 and 19	
Name:	
ivaine.	
Michael Griffith	
Trionact Griffian	~
Mailing Address:	Signature
0 ** * * * * * * * * * * * * * * * * *	
5676 Greenshade Road	
San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	
	Citizenship: United States of America
San Diego, California	

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place	Date of Signatures
Vista, CA 92081 City/State of Actual Residence:	Date of Signature:
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6 2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
2960 Rungsted Kyst, Denmark	Citizenship. Delimark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

Utility Patent Design Patent
is sought on the invention, whose title appears above, the specification of which:
is attached hereto.
was filed on October 6, 1994 as Serial No. 08/319,411.
said application having been amended on 02/03/95; 04/03/97; 08/08/97
01/28/98; 03/18/99; 06/16/99; 01/27/00; 06/19/00; 05/25/01; 02/20/03; 10/30/03; 07/20/04
12/06/04;

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968
		·

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49 Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature:
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16	5
DK2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Desidence	
City/State of Actual Residence:	Citizenship: Denmark
Taastrup, Denmark	State of the state
Tuubit ap, Domitari	*
Name:	
Tamber T. day	
Jesper Lohse	
Mailing Address:	Signature
Waning Address.	Signature
Hulgardsvej 92 st. th.	
DK2400 Copenhagen, Denmark	Date of Signature:
City/State of Actual Residence:	
	Citizenship: Denmark
Copenhagen, Denmark	
	\cap
Name:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Michael Egholm	
	10000111
Mailing Address:	Signature \(\)
	$M_{\alpha i} I_{\alpha i}$
11 Highview Road	X19412016
Madison, CT 06443	Date of Signature:
City/State of Actual Pasidonas	
City/State of Actual Residence:	Citizenship: Denmark
Madison, Connecticut	Carache Samuelle
1.1uu.iooii, Coiiiiooiiout	

DOCKET NO.: ISIS-1158

PATENT

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	
Weston, Massachusetts	Citizenship: United States of America
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	
San Diego, California	Citizenship: United States of America
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Citizen Historical City
San Diego, California	Citizenship: United States of America

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081	Date of Signature:
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6 2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	
2960 Rungsted Kyst, Denmark	Citizenship: Denmark

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

Utility Patent Design Patent
is sought on the invention, whose title appears above, the specification of which:
is attached hereto.
\boxtimes was filed on October 6, 1994 as Serial No. 08/319,411.
said application having been amended on 02/03/95; 04/03/97; 08/08/97
$\underline{01/28/98}; \underline{03/18/99}; \underline{06/16/99}; \underline{01/27/00}; \underline{06/19/00}; \underline{05/25/01}; \underline{02/20/03}; \underline{10/30/03}; \underline{07/20/04}; \underline{01/28/98}; \underline{03/18/99}; \underline{06/16/99}; \underline{01/27/00}; \underline{06/19/00}; \underline{05/25/01}; \underline{02/20/03}; \underline{10/30/03}; \underline{07/20/04}; \underline{01/28/98}; \underline{01/27/00}; $
12/06/04;

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign** application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
	PCT	EP/01219	May 22, 1992
	Denmark	986/91	May 24, 1991
	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	÷
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
·	
Frederiksberg Denmark	
	D + D 1 1 1 1 1 1 C CO1 D 1 1

Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	Dorte Buchard
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature: 31 - 8 - 2006
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16	
DK2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	
Taastrup, Denmark	Citizenship: Denmark
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th.	D-4 & C'
DK2400 Copenhagen, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Copenhagen, Denmark	1
Name:	20
Michael Egholm	
Mailing Address:	Signature
11 Highview Road	
Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Madison, Connecticut	Citizensnip. Denmark

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	Citizen Line Haited States of America
Weston, Massachusetts	Citizenship: United States of America
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil	
San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	Citizanshin. United States of America
San Diego, California	Citizenship: United States of America
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road	
San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Citizanshin, United States of America
San Diego, California	Citizenship: United States of America

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place	
Vista, CA 92081	Date of Signature:
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6	
2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	
2 - J	Citizenship: Denmark
2960 Rungsted Kyst, Denmark	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought on	the invention, whose title appe	ars above, the specification of which:
	is attached hereto.	
	was filed on October 6, 1	<u>1994</u> as Serial No. <u>08/319,411</u> .
	said application having b	een amended on <u>02/03/95; 04/03/97; 08/08/97</u>
01/28/98; 03	/18/99; 06/16/99; 01/27/00; 06	/19/00; 05/25/01; 02/20/03; 10/30/03; 07/20/04;
12/06/04		

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign** application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

PATENT PATENT

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
	PCT	EP/01219	May 22, 1992
	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

PATENT PATENT

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
Tredefiksoeig Dix 2000	Date of Signature.
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
5	
Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8	
3100 Hornback	Date of Signature:
City/State of Actual Residence:	
Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16 DK2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	Cities Demonstra
Taastrup, Denmark	Citizenship: Denmark
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th. DK2400 Copenhagen, Denmark	Date of Signature:
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Citizanshina Danmaria
Madison, Connecticut	Citizenship: Denmark

DOCKET NO.: ISIS-1158

PATENT

Name:	·	
Muthiah Manoharan		
Mailing Address:	Signature	
25 Circle Drive Weston, MA 02493	Date of Signature:	
City/State of Actual Residence:		
Weston, Massachusetts	Citizenship: United States of America	
Name:		
John Kiely		
Mailing Address:	Signature	
4230 Corte Facil San Diego, CA 92130	Date of Signature:	
City/State of Actual Residence:	Citizenship: United States of America	
San Diego, California	Cruzensnip. Officed States of America	
Name:		
Michael Griffith		
Mailing Address:	Signature	
5676 Greenshade Road		
San Diego, CA 92121	Date of Signature:	
City/State of Actual Residence:	Citizenship: United States of America	

· DOCKET NO.: ISIS-1158

City/State of Actual Residence:

2960 Rungsted Kyst, Denmark

PATENT

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place	·
Vista, CA 92081	Date of Signature:
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America
Name:	
ivame:	6 . *
Rolf Henrik Berg	
Roll Hellik Berg	7012
Mailing Address:	Signature
Maning Addiess.	Signature
Strandvaenget 6	
2960 Rungsted Kyst, Denmark	Date of Signature: 01 Sep 2006
2700 Rungsicu Kysi, Deimiaik	Date of Signature:

Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought on th	e invention, whose title appea	rs above, the specification of which:
	is attached hereto.	
	was filed on October 6, 19	994 as Serial No. <u>08/319,411</u> .
	said application having be	een amended on 02/03/95; 04/03/97; 08/08/97
01/28/98; 03/1	8/99; 06/16/99; 01/27/00; 06/	19/00; 05/25/01; 02/20/03; 10/30/03; 07/20/04;
12/06/04; .		

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650 PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49 Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
	· · · · · · · · · · · · · · · · · · ·
Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature:
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	
Solen II. Solmeensen	
Mailing Address:	Signature
Loevtoften 16	D. A. CG.
DK2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	
	Citizenship: Denmark
Taastrup, Denmark	
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th.	
DK2400 Copenhagen, Denmark	Date of Signature:
3. ,	
City/State of Actual Residence:	
	Citizenship: Denmark
Copenhagen, Denmark	
Name:	
AC 1 1 1 1 1	
Michael Egholm	
Mailing Address:	Signature
Maning Address.	Signature
11 Highview Road	
Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Madison, Connecticut	Ciuzensnip. Denmark
iviacioni, Comiconcut	

Name:	
Muthiah Manoharan	Anutarah Meshen Signature
Mailing Address:	Signature
25 Circle Drive 19 ROLLING LANG SWeston, MA 02493	Date of Signature: August 25, 2066
City/State of Actual Residence:	
Weston, Massachusetts	Citizenship: United States of America
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	
	Citizenship: United States of America
San Diego, California	•
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	
San Diego, California	Citizenship: United States of America

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081 City/State of Actual Residence:	Date of Signature:
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6 2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
2960 Rungsted Kyst, Denmark	Citizenship. Donnar

SEP 2 2 2006 B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought on t	he invention, whose title appea	ars above, the specification of which:
	is attached hereto.	
	was filed on October 6, 1	994 as Serial No. <u>08/319,411</u> .
	⊠ said application having be	een amended on <u>02/03/95; 04/03/97; 08/08/97</u>
01/28/98; 03/	18/99; 06/16/99; 01/27/00; 06/	19/00; 05/25/01; 02/20/03; 10/30/03; 07/20/04
12/06/04: .		

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968
		·

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650 PATENT TRADEMARK OFFICE

Address all correspondence to:

Mailing Address:

Hornback, Denmark

City/State of Actual Residence:

Klosterrisvej 8 3100 Hornback

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49 Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt on behalf of Ole Buchardt
Ole Buchardt (deceased)	

Signature

Date of Signature:

Citizenship: Denmark

Name:	
Soren H. Sonnechsen	Soll Res
Mailing Address:	Signature
Loevtoften 16 DK2630 Taastrup, Denmark	Date of Signature: 3/4-06
City/State of Actual Residence:	
Taastrup, Denmark	Citizenship: Denmark
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th. DK2400 Copenhagen, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Copenhagen, Denmark	Citizenship. Denmark
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Madison, Connecticut	

PATENT

· · · · · · · · · · · · · · · · · · ·
Signature
Data of Signatures
Date of Signature:
Citizenship: United States of America
Citizenship. Cinica States of America
Signature
Date of Signature:
Citizenship: United States of America
Signature
Date of Signature:
Citimanahina Haitad States of Assessi
Citizenship: United States of America

DOCKET NO.: ISIS-1158

PATENT

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place	
Vista, CA 92081	Date of Signature:
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6	
2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citizanakina Damasala
2960 Rungsted Kyst, Denmark	Citizenship: Denmark